

## **INFO 5100: Homework Assignment: Blood supply use-case**

Due Date: Nov 2, 2015

The objective of this assignment is make you practice the eco-system model using the component tools (package or jar) we provided to you. In addition, we want you to experience the use of inheritance as a way of learning how to extend our workflow models to support specialized functionality such as that of the Red-Cross example we discussed in class.

Please review the uses we discussed in class and implement the ones we have on slides 17-21. You are required to use the components provided to you. Please do not create your own. Your program must provide authentication functionality, the receptionist role in welcoming donors, as well as the nurse role in receiving a donor and then administering the extraction and recording of the blood type, date, a bar-code for tracking the physical pint of blood. The nurse who did the extraction must be included automatically. The donor profile must be linked to the blood donation. It will be helpful if you provide search feature of the donor. Any added features will be considered as part of a bonus score.

Note :

The Jar file is attached with this question. It contains Java docs for you to understand the jar classes and methods in them. Most of them is same as taught to you in class. We have also added DB4O util library jar. If you want you can use both of them.